

/CE/GW/

-215A .

/ECAD/

-1035C .

4090007 Miles Sand & Gravel LUST

1201 M Street SE

Auburn, WA 98002



From: 12/1/1978 To: 9/16/2014

Closed Date:

#00096970

W

TAB





## Notification for Underground Storage Tanks

State Agency Name and Address:

### STATE USE ONLY

ID NUMBER:

DATE RECEIVED:

DATE ENTERED INTO COMPUTER:

DATA ENTRY CLERK INITIALS:

OWNER WAS CONTACTED TO CLARIFY RESPONSES, COMMENTS:

### TYPE OF NOTIFICATION

☐ A. NEW FACILITY ☐ B. AMENDED ☒ C. CLOSURE

3 Number of tanks  
at facility

Number of continuation sheets attached

### INSTRUCTIONS AND GENERAL INFORMATION

Please type or print in ink. Also, be sure you have signatures in ink for sections VIII and XI. Complete a notification form for each location containing underground storage tanks. If more than 5 tanks are owned at this location, you may photocopy pages 3 through 5 and use them for additional tanks.

The primary purpose of this notification program is to locate and evaluate underground storage tank systems (USTs) that store or have stored petroleum or hazardous substances. The information you provide will be based on reasonably available records, or in the absence of such records, your knowledge or recollection.

**Federal law requires UST owners to use this notification form for all USTs storing regulated substances that are brought into use after May 8, 1986, or USTs in the ground as of May 8, 1986 that have stored regulated substances at any time since January 1, 1974. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.**

**Who Must Notify?** Section 9002 of RCRA, as amended, requires owners of USTs that store regulated substances (unless exempted) to notify designated State or local agencies of the existence of their USTs. "Owner" is defined as:

- In the case of an UST in use on November 8, 1984, or brought into use after that date, any person who owns an UST used for storage, use, or dispensing of regulated substances; or
- In the case of an UST in use before November 8, 1984, but no longer in use on that date, any person who owned the UST immediately before its discontinuation.

Also, if the State so requires, any facility that has made any changes to facility information or UST system status, must submit a notification form (only amended information needs to be included).

**What USTs Are Included?** An UST system is defined as any one or combination of tanks that (1) is used to contain an accumulation of regulated substances, and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Regulated USTs store petroleum or hazardous substances (see the following "What Substances Are Covered").

### What Tanks Are Excluded From Notification?

- Tanks removed from the ground before May 8, 1986;
- Farm or residential tanks of 1,100 gallons or less capacity storing motor fuel for noncommercial purposes;
- Tanks storing heating oil for use on the premises where stored;
- Septic tanks;
- Pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
- Surface impoundments, pits, ponds, or lagoons;
- Storm water or waste water collection systems;
- Flow-through process tanks;
- Liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
- Tanks on or above the floor of underground areas, such as basements or tunnels;
- Tanks with a capacity of 110 gallons or less.

**What Substances Are Covered?** The notification requirements apply to USTs containing petroleum or certain hazardous substances. Petroleum includes gasoline, used oil, diesel fuel, crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute). Hazardous substances are those found in Section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA.

**Where To Notify?** Send completed forms to:

**When To Notify?** 1. Owners of USTs in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring USTs into use after May 8, 1986, must notify within 30 days of bringing the UST into use. 3. If the State requires notification of any amendments to facility, send information to State agency immediately.

**Penalties:** Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$11,000 for each tank for which notification is not given or for which false information is given.

### I. OWNERSHIP OF UST(s)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

**Miles Sand & Gravel Company**

Street Address

**400 Valley Ave NE**

County **Pierce**

City

**Puyallup**

State

**WA**

Zip Code

**98372**

Phone Number (Include Area Code)

**253-833-3705**

### II. LOCATION OF UST(s)

If required by State, give the geographic location of USTs by degrees, minutes, and seconds. Example: Latitude 42° 36' 12" N, Longitude 85° 24' 17" W

**Latitude 47° 17' 47.71" N Longitude 122° 12' 44.65" W**

Facility Name or Company Site Identifier, as applicable

**Auburn**

**Q** If address is the same as in Section I, check the box and proceed to section III. If address is different, enter address below:

Street Address

**Miles Sand & Gravel Company**

County **Pierce**

City **Auburn**

State

**WA**

Zip Code

**98002**





United States  
**Environmental Protection Agency**  
Washington, DC 20460

Form Approved.  
OMB No.2050-0068

### Notification for Underground Storage Tanks

#### III. TYPE OF OWNER

- ☐ Federal Government  
☐ State Government ☐ Commercial  
☐ Local Government ☒ Private

#### IV. INDIAN COUNTRY

USTs are located on land within an Indian Reservation or on trust lands outside reservation boundaries. ☒

USTs are owned by a Native American nation or tribe. ☐

Tribe or Nation where USTs are located:

**Muckleshoot Indian Tribe**

#### V. TYPE OF FACILITY

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Gas Station           | <input type="checkbox"/> Railroad               | <input type="checkbox"/> Trucking/Transport                       |
| <input type="checkbox"/> Petroleum Distributor | <input type="checkbox"/> Federal - Non-Military | <input type="checkbox"/> Utilities                                |
| <input type="checkbox"/> Air Taxi (Airline)    | <input type="checkbox"/> Federal - Military     | <input type="checkbox"/> Residential                              |
| <input type="checkbox"/> Aircraft Owner        | <input type="checkbox"/> Industrial             | <input type="checkbox"/> Farm                                     |
| <input type="checkbox"/> Auto Dealership       | <input type="checkbox"/> Contractor             | <input checked="" type="checkbox"/> Other (Explain) <b>Mining</b> |

#### VI. CONTACT PERSON IN CHARGE OF TANKS

Name:  
**Ryan Ransavage**

Job Title:  
**Environmental Specialist**

Address:  
**400 Valley Ave NE  
Puyallup WA 98372**

Phone Number (Include Area Code):  
**253-833-3705 x436**

#### VII. FINANCIAL RESPONSIBILITY

☒ I have met the financial responsibility requirements (in accordance with 40 CFR Subpart H) by using the following mechanisms:

Check All that Apply

- |  |                                     |   |   |
|--|-------------------------------------|---|---|
| <input type="checkbox"/> Self Insurance                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> Guarantee        | <input type="checkbox"/> State Funds                  |
| <input type="checkbox"/> Commercial Insurance            |                                     | <input type="checkbox"/> Surety Bond      | <input type="checkbox"/> Trust Fund                   |
| <input type="checkbox"/> Risk Retention Group            |                                     | <input type="checkbox"/> Letter of Credit | <input type="checkbox"/> Other Method (describe here) |
| <input type="checkbox"/> Local Government Financial Test |                                     | <input type="checkbox"/> Bond Rating Test |   |

#### VIII. CERTIFICATION (Read and sign after completing ALL SECTIONS of this notification form)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in Sections I through XI of this notification form and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative (Print)  
**Ryan Ransavage  
Environmental Specialist**

Signature

Date Signed

**10/10/2014**

#### Paperwork Reduction Act Notice

EPA estimates public reporting burden for this form to average 30 minutes per response including time for reviewing instructions, gathering and maintaining the data needed and completing and reviewing the form. Send comments regarding this burden estimate to Director, OP, Regulatory Information Division (2137), U.S. Environmental Protection Agency, 401 M Street Washington D.C. 20460, marked "Attention Desk Officer for EPA." This form amends the previous notification form as printed in 40 CFR Part 280, Appendix I. Previous editions of this notification form may be used while supplies last.





### Notification for Underground Storage Tanks

#### IX. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for all tanks and piping at this location.)

Tank Identification Number	Tank No. <u>1</u>	Tank No. <u>2</u>	Tank No. <u>3</u>	Tank No. _____	Tank No. _____
<b>1. Status of Tank</b> (check only one)      Currently In Use Temporarily Closed Permanently Closed	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>2. Date of Installation</b> (month/year)	1978	1978	1978		
<b>3. Estimated Total Capacity</b> (gallons)	10,000	10,000	20,000		
<b>4. Material of Construction</b> (check all that apply) Asphalt Coated or Bare Steel Cathodically Protected Steel Coated and Cathodically Protected Steel Composite (Steel Clad with Fiberglass) Fiberglass Reinforced Plastic Lined Interior Excavation Liner Double Walled Polyethylene Tank Jacket Concrete Unknown If Other, please specify here  Check box if tank has ever been repaired	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/>
<b>5. Piping Material</b> (check all that apply)      Bare Steel Galvanized Steel Fiberglass Reinforced Plastic Copper Cathodically Protected Double Walled Secondary Containment Unknown Other, please specify	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  
<b>6. Piping Type</b> "Safe" Suction (no valve at tank) (Check all that apply)      "U.S." Suction (valve at tank) Pressure Gravity Feed Check box if piping has ever been repaired	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>





United States  
Environmental Protection Agency  
Washington, DC 20460

Form Approved.  
OMB No.2050-0068

Notification for Underground Storage Tanks

Tank Identification Number	Tank No. <u>1</u>	Tank No. <u>2</u>	Tank No. <u>3</u>	Tank No. _____	Tank No. _____					
7. Substance Currently Stored (or last stored in the case of closed tanks) ( Check all that apply)	Gasoline <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
	Diesel <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
	Gasohol <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
	Kerosene <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
	Heating Oil <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
	Used Oil <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
If Other, please specify here	_____	_____	_____	_____	_____					
Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
CERCLA name and/or	_____	_____	_____	_____	_____					
CAS number	_____	_____	_____	_____	_____					
Mixture of Substances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Please specify here	_____	_____	_____	_____	_____					
	_____	_____	_____	_____	_____					
	_____	_____	_____	_____	_____					
8. Release Detection (check all that apply)	TANK	PIPE	TANK	PIPE	TANK	PIPE	TANK	PIPE	TANK	PIPE
Manual tank gauging	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Tank tightness testing	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Inventory Control	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Automatic tank gauging	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vapor monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interstitial monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic line leak detectors		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Line tightness testing		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
No release detection required (such as some types of suction piping, emergency generator tanks or field constructed tanks)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other method allowed by implementing agency (such as SIR)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Please specify other method here	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
9. Spill and Overfill Protection										
Overfill device installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spill device installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





United States  
**Environmental Protection Agency**  
Washington, DC 20460

Form Approved.  
OMB No.2050-0068

**Notification for Underground Storage Tanks**

Tank Identification Number \_\_\_\_\_ Tank No. 1 Tank No. 2 Tank No. 3 Tank No. \_\_\_\_\_ Tank No. \_\_\_\_\_

**X. CLOSURE OR CHANGE IN SERVICE**

**1. Closure or Change in Service**

Estimated date the UST was last used for storing regulated substances (month/day/year)

9/12/2014

9/12/2014

9/12/2014

Check box if this is a change in service

☐☐☐☐☐

**2. Tank Closure**

Estimated date tank closed (month/day/year)

9/14/2014

9/14/2014

9/14/2014

(check all that apply below)

Tank was removed from ground

☒☒☒☐☐

Tank was closed in ground

☐☐☐☐☐

Tank filled with inert material

☐☐☐☐☐

Describe the inert fill material here

**3. Site Assessment**

Check box if the site assessment was completed

☒☒☒☐☐

Check box if evidence of a leak was detected

☒☒☒☐☐

**XI. CERTIFICATION OF INSTALLATION (COMPLETE FOR UST SYSTEMS INSTALLED AFTER DECEMBER 22, 1988)**

**Installer Of Tank And Piping Must Check All That Apply:**

Installer certified by tank and piping manufacturers

☐☐☐☐☐

Installer certified or licensed by the implementing agency

☐☐☐☐☐

Installation inspected by a registered engineer

☐☐☐☐☐

Installation inspected and approved by implementing agency

☐☐☐☐☐

Manufacturer's installation checklists have been completed

☐☐☐☐☐

Another method allowed by State agency  
If so, please specify here

☐☐☐☐☐

Signature of UST Installer Certifying Proper Installation of UST System

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Position

\_\_\_\_\_  
Company





**CERTIFICATION of COMPLETED CLOSURE**  
**For Underground Storage Tanks (USTs) on Indian Lands**  
**EPA Region 10 (Alaska, Idaho, Oregon and Washington)**

EPA UST Facility No.: 409007

TYPE (check those that apply):

ECOLOGY SITE ID # 87547247

- ☐ Permanent  
☒ Tank Removal **or** ☐ Closure-in-Place  
☐ Temporary (Request for extension beyond 1 year)  
☐ Change-in-Service (Going from a regulated use to an unregulated use (e.g. from storing diesel fuel to storing water))

**WAS CLOSURE WORK WITNESSED BY EPA, TRIBAL OR OTHER LOCAL UST OFFICIAL?**

☒ No ☐ Yes If yes, who and what organization?

**DATE(S) FOR CLOSURE WORK:** SEPT 10, 2014

**FACILITY NAME:** MILES SAND & GRAVEL

**Address:** 1201 M ST SE AUBURN, WA **Phone No.:** (253) 377-1760

**On-Site Contact:** RYAN RANSavage

**TANKS INVOLVED:**

Tank Number	Volume (gals)	Substance(s) Stored Throughout Tank Use
<u>E</u>	<u>10,000</u>	<u>UNLEADED GASOLINE</u>
<u>M</u>	<u>10,000</u>	<u>DIESEL</u>
<u>W</u>	<u>20,000</u>	<u>DIESEL</u>

**CONTAMINATION FOUND ABOVE STATE CLEAN-UP LEVELS?** ☐ No ☒ Yes

If Yes, was groundwater contamination also found? ☒ No ☐ Yes

If any contamination was found, when was EPA notified?

and by whom? DEPARTMENT OF ECOLOGY

**THIS NOTIFICATION SUBMITTED BY (check one):**

☐ Owner/Operator ☐ Owner ☒ Owner's authorized representative

**Name (printed):** Alexander H. Koch **Phone No.:** (509) 947-4059

**Signature:** [Signature] **Date:** 10/13/2014

**Send this notice and an original of the site assessment report to:**

U.S. EPA Region 10  
UST Program, Mailstop OCE-082  
1200 6th Avenue, Suite 900  
Seattle, WA 98101



Miles Sand and Gravel Company & Muckleshoot Indian Tribe  
Auburn, WA

DNR Permit #70-010339

SR-18 Easement  
2.98 acres

16.53 Acres  
Parcel #1821059044  
(total includes  
easement)

32.27 Acres  
Parcel #1921059002

7.59 Acres  
Parcel #1921059082

11.97 Acres  
Parcel #1921059008

14.8 Acres  
Parcel #1721059073

80 Acres  
Removed from DNR Permit #70-10339  
May 2006

Miles Sand and Gravel Co. = 65.38 Acres (white tax parcels excluding easement...continue mining operations)

Muckleshoot Indian Tribe = 14.8 acres (continue mining operations)

May 17, 2006



**Rau, Rob**

---

**From:** alex koch <akoch1967@yahoo.com>  
**Sent:** Saturday, September 20, 2014 5:51 AM  
**To:** Rau, Rob  
**Attachments:** Auburn - Tax Parcels for DNR.pdf

Rob:  
Received the following email from Miles Sand and Gravel. Please review the attached property map and let me know how this is going to effect agency oversight.  
Alex

Mike Schuh  
To  
Me  
CC  
Ryan Ransavage Dave Lewis Jerry Trudeau  
Sep 19 at 5:49 PM

Alex –  
Got your phone message earlier today and saw this email. See attached exhibit which denotes the tax parcels formerly owned by Miles. To summarize...

- The tax parcels outlined in red were sold to the Tribe in 2002. It is my understanding that the Tribe put these parcels in Trust and they are now regulated by federal agencies (EPA, Bureau of Indian Affairs, etc.)
- The tax parcels outlined in white were sold to the Tribe in 2009. It is my understanding that these parcels are not included in Trust. We should confirm/clarify jurisdictional authority with DOE and EPA. The fuel tanks were located on tax parcel 1921059082.

Just want to make sure we're all on the same page. Please let me know if you have any questions. Give me a call next week to discuss further.

Thanks,  
Mike



SITE SOILS CHARACTERIZATION AND CLEANUP REPORT

MILES SAND & GRAVEL COMPANY  
1201 M Street SE  
AUBURN, WA 98002

Prepared for:

Miles Sand & Gravel  
400 Valley Avenue NE  
Puyallup, WA 98372

Prepared by:

Blue Sage Environmental, Inc.  
P.O. Box 6738  
Kennewick, WA 99336

October 13, 2014



## STATEMENT OF WARRANTY

This report has been prepared for the sole use of Miles Sand & Gravel Company, their management, and their designated representatives. Blue Sage Environmental, Inc. (BSE) of Kennewick, Washington managed sample gathering, analytical methods, data review, and project reports as required by the Washington State Department of Ecology, Toxics Cleanup Program. Mr. Alexander H. Koch, environmental projects manager for BSE, directed all on-site technical services.

The analysis and conclusions in this report are based on site conditions, as they existed during the length of this investigation. Blue Sage Environmental, Inc. makes no warranty to the environmental condition of this property or to any bordering property or properties. BSE has solely reported findings from specific actions taken as a result of performing a site soil characterization following a cleanup in accordance with Washington State Department of Ecology guidelines and regulations. No other warranty or representation, express or implied, is made.



---

Signature

October 13, 2014

Date

Alexander H. Koch  
Washington State Site Assessment Certified  
ICC No. 1059552-U7  
Expiration date July 19, 2015



## INTRODUCTION

### SITE NAME AND LOCATION:

Ryan Benschwege - Environmental Specialist  
Miles Sand & Gravel Company  
1201 M Street SE  
Auburn, WA 98002 (Figures 1&2)  
King County Parcel: 1921059082  
Ecology Facility Site ID #87547247

### Legal Description:

E 1000.00 FT OF W 1030.00 FT OF N 330.80 FT OF FOLG GLS 9 & 10 IN NE 1/4 &  
ABANDONED RIVER BED LY THIN

### SITE OWNER:

Muckleshoot Indian Tribe  
39015 172<sup>nd</sup> SE  
Auburn, WA 98092  
(253) 876-3136

### PROJECT PURPOSE:

Miles Sand & Gravel Company (MS&G) has operated the Auburn pit and concrete batch plant since the 1940s. In October 2009, they sold this property to the Muckleshoot Indian Tribe. MS&G leased back the property for a five year period which expires December 31, 2014. At the end of the lease, all structures relating to the operation of the sand and gravel and concrete batch plant are to be removed. This includes the Underground Storage Tank (UST) system that MS&G uses to refuel their equipment.

### UST HISTORY:

Three USTs were installed at the subject property in 1978. They are described as follows in Ecology's UST Tank Data Summary (*Appendix A*):

Tank ID Name	Capacity (gallons)	Size	Substance stored
E	10,000	95"dia x 28'	Unleaded Gasoline
M	10,000	95"dia x 28'	Diesel
W	20,000	119"dia x 35'	Diesel

The USTs were positioned end to end (*Figure 3*). Each UST had a designated pump that was attached directly over the top of each tank (*Photos 1*). All piping for this system was located on top of each UST. This included the fill tube, vent piping, and fuel dispenser pump. The interior of each UST was lined with an epoxy coating in 1998 as a system upgrade.



The tops of the USTs were covered with a concrete pad. The fuel dispensing systems were on this pad. In 1998, cement skirts were added along both sides of the UST cover pad. Prior to that time, the site equipment parked on gravel during refueling.

#### **SCOPE OF WORK:**

- Remove existing USTs and associated equipment;
- Excavate any contaminated soils;
- Sample excavation sidewalls and floor for soils characterization;
- Stockpile and treat any contaminated soils on the subject property.

#### **SAMPLE NOMENCLATURE:**

Samples were numbered sequentially and preceded by the identifier, “MSG” for Miles Sand & Gravel Company, D or G (diesel or gasoline), and size of UST (10k or 20k). Stockpile samples were numbered with the identifier, “MSG”, “SP” (stockpile), and numbered sequentially. Each chain of custody form has the date of sampling included as an identifier.

#### **ANALYTICAL PARAMETERS:**

Soil samples were analyzed for Diesel Range Organics (DRO) and Gasoline Range Organics as specified in MTCA Table 830-1, Required Testing for Petroleum Releases.

#### **QUALITY ASSURANCE/QUALITY CONTROL:**

Soil samples were analyzed for their individual analytes by the ESN-Northwest laboratory in Olympia, WA. The laboratory QA/QC procedures followed standard methods accepted by EPA, listed in SW-846. Laboratory QA/QC procedures included laboratory surrogate recoveries. The holding times (extraction and analysis) for all samples were within the required limits. All QA/QC for soil samples meets or exceed EPA recommended guidance. The soil samples are considered acceptable quality and usable for evaluation of the environmental conditions at the site.

#### **SITE GEOLOGY:**

The subject property is located in the Duwamish Valley, south of the Green River. A large mudflow covers the drift plain forming a broad, fertile area. The gravel pit is located against the east side of the valley wall. Underlying soils consist of flood deposited pebble-cobble-gravel and sand mixture (*Luzier, 1969*).

There is a potable-water well located on the subject property. It was completed in 1969. The well log indicates a static water level at 49 feet below the surface. State of Washington well log is attached (*Appendix B*).

#### **UST DECOMMISSIONING:**

The UST system was dismantled on September 8, 2014. Each UST was pumped empty of remaining fuel by Don Small & Sons Oil Company of Auburn. The concrete pad was removed from over the USTs exposing the tops of each tank. All pumps, vent lines and



fill tubes were removed. The USTs had been bedded in pea gravel (*Photos 2*). This was removed from along the south side of the USTs. On September 9, 2014, the USTs were triple rinsed by Marine Vacuum Service of Seattle (*Appendix C*). Each UST was inerted using dry ice.

On September 9, 2014, the three USTs were removed from the ground (*Figure 4*). A Valley Regional Fire Authority inspector was present during the day. Following removal of the USTs (*Photos 3*) remaining pea gravel was removed where it could be accessed by the tracked-excavator and stockpiled on-site (*Photos 4*). This product exhibited no odor, or discoloration associated with either diesel fuel or gasoline. A sand and gravel mixture was removed from around the 10,000 and 20,000 gallon diesel USTs. It was stockpiled on-site. Volume estimated to be just over 100 cubic yards.

The USTs were transported to the back of the pit, turned on their sides, and left to vent and dry out. MS&G is going to move them to another of their locations for future use. — ?

May need to be re-venting By Manifest rep

#### Site Sampling – September 10, 2014

The USTs had been bedded in pea gravel. Releases would have migrated quickly to the bottom of each tank. Soil samples were obtained from the floor of the excavation from under all three USTs (*Figures 5, 6 & 7*). Depth of samples from under the UST is approximate, based on depth each UST was resting on native soil. Soil samples were also obtained from the stockpiled material following excavation of the USTs.

Sample Number	Depth (ft)	Location
MSG-D20-1	12+	Floor, east end of UST
MSG-D20-2	12+	Floor, center of UST
MSG-D20-3	12+	Floor, west end of UST
MSD-D10-1	10+	Floor, east end of UST
MSG-D10-2	10+	Floor, center of UST
MSG-D10-3	10+	Floor, west end of UST
MSG-G10-1	12+	Floor, east end of UST
MSG-G10-2	12+	Floor, center of UST
MSG-G10-3	12+	Floor, west end of UST

a sample

HST

A copy of the ESN Northwest Laboratory report, dated September 16, 2014 is attached (*Appendix D*). A summary of these results is attached in tabular form (*Table 1*). The sample under the east end of the 10,000 gallon Diesel UST reported the concentration of diesel (5,500 mg/kg) above the MTCA Method A cleanup level for soil (2000 mg/kg) for Diesel Range Organics (DRO). Concentrations from the floor samples under the 20,000 gallon Diesel UST were reported below the MTCA Method A Cleanup Level for Diesel Range Organics (DRO). Concentrations from under the 10,000 gallon gasoline UST reported not detected for Gasoline Range Organics (GRO). The five stockpile samples had one result above the MTCA Cleanup Level for Diesel.

6 sample



Additional excavation was required from around the 10,000 gallon Diesel UST after review of the analytical results. The open excavations under the 20,000 gallon Diesel and 10,000 gallon Unleaded Gasoline USTs were filled with clean pit run (sand and gravel mixture).

#### Site Remediation – September 12, 2014

On September 12, 2014, addition excavation was completed by removal of soil from around the location of the 10,000 gallon Diesel UST. This activity lowered the floor of the excavation from 12ft to approximately 25ft below the surface. The original north wall was moved back approximately 5 feet (*Photos 5*). Approximately 174 cubic yards of excavated soil was stockpiled on the property.

#### Site Sampling – September 12, 2014

Soil samples were obtained from the sidewalls and floor of the excavation (*Figure 8*). Depth of floor samples is at least the depth reported. The bucket of the tracked excavator was used to obtain each sample. Scooping action of the excavator would add to the depth to the floor of 25 feet. Analysis for BTEX was suspended following a review of the results from the September 10<sup>th</sup> sampling activity. All samples results for BTEX in the excavation floor and stockpile samples reported concentrations as not detected.

Sample Number	Depth (ft)	Location
D10 - Floor E	26+	Floor, east end
D10 - Floor W	26+	Floor, west end
N Wall - East	20	North wall, east end
N Wall - Center	20	North wall, center
N Wall - West	20	North wall, west end
S Wall - East	20	South wall, east end
S Wall - West	20	South wall, west end

Concentrations of diesel above the MTCA Method A Cleanup Level were present in the north wall center and east end at a depth of approximately 20 feet below the surface. The floor of the excavation at a depth of approximately 25 feet did not report diesel concentrations above the MTCA Method A Cleanup Level. Sheen testing was used to check for the presence of diesel prior to sampling from specific locations. There was no petroleum odor present in the sidewall soils. The remaining petroleum hydrocarbons were weathered and appeared to have been in the soil for an extended period of time.

A copy of the ESN Northwest Laboratory report, dated September 16, 2014 is attached (*Appendix E*). A summary of these results is attached in tabular form (*Table 2*).

#### Site Remediation – September 16, 2014

Excavation resumed on September 16<sup>th</sup> around the area where the 10,000 gallon Diesel UST had been located. Elevated levels of diesel remained on the north wall after the September 12, 2014 remediation work. The north wall, east wall and south walls were



100  
174  
140  
414

moved back several feet (*Photos 6*). Approximately 140 cubic yards of soil was removed from the area and stockpiled on the property.

#### Site Sampling – September 16, 2014

Soil samples were obtained from the north, east and south sidewalls of the excavation. Depth was around 20 feet. This depth was where highest concentrations of diesel had been reported from previous soil sampling.

Sample Number	Depth (ft)	Location
N Wall – East2	20	North wall, east end
N Wall – Ctr 2	20	North wall, center
East Wall-S End	20	East wall, se corner
S Wall - Ctr	20	South wall, center
S Wall – W End	20	South wall, west end

All samples reported diesel concentrations as not detected. A copy of the ESN Northwest Laboratory report, dated September 23, 2014 is attached (*Appendix F*). A summary of these results is attached in tabular form (*Table 3*).

Following receiving results from the September 16, 2014 sampling activity, an aqueous solution of surfactant and nitrogen (Urea) was applied across the open excavation area. The open excavation has been backfilled with pit run (sand and gravel mixture) from the MS&G operation.

#### STOCKPILE REMEDIATION:

Soil from excavation during removal of the three USTs on September 10<sup>th</sup> was laid out in a long pile, about two feet deep. Soils from excavation on September 12<sup>th</sup> and 16<sup>th</sup> were laid out in similar long piles. On September 17<sup>th</sup>, the piles were turned. An aqueous solution of surfactant and nitrogen (Urea) was applied. The piles were turned several more times prior to sampling on September 24, 2014.

Treatment of stockpiled soils by the addition of nutrients (aqueous solution) and the turning of the piles (oxygenation) lowered concentrations of diesel quickly. The weather was cooperative as daytime temperatures were in the 70s during this period with sunny days. A copy of the ESN Northwest Laboratory report, dated September 30, 2014 is attached (*Appendix G*). Results are summarized in tabular form (*Table 4*).

#### SUMMARY OF REMEDIATION ACTIVITIES:

Following removal of the three USTs, concentrations of diesel above the MTCA Method A Cleanup Level for Soil were detected below the 10,000 gallon Diesel UST. Native soil around and underneath the UST was best described as a pebble-cobble-gravel and sand mixture (*Photo 7*). This stratum allowed for the horizontal and vertical movement of diesel from spills that occurred over the years the UST was in operation. Remediation by the excavation of contaminated soils from around this UST was successful.



Concentrations of diesel from sidewalls and floor of the excavated area were below the MTCA Method A Cleanup Level for Soils of 2,000 mg/kg. Sample analysis from beneath the 20,000 gallon Diesel and 10,000 Gasoline USTs did not report elevated concentrations above their respective MTCA Cleanup Levels. Groundwater was not encountered in the excavations.

Treatment of stockpiles soils with elevated concentrations of diesel was successful. Following the addition of a nitrogen-nutrient source to the stockpiled soils, concentrations of diesel were below the MTCA Method A Cleanup Level. This material will be used on-site as fill.



## REFERENCE LIST

Luzier, J.E., 1969, *Geology and Groundwater Resources of Southwestern King County, Washington*, Department of Water Resources, Water Supply Bulletin No. 28, Olympia, Washington.

Washington Department of Ecology, *Model Toxics Control Act Cleanup Regulation*, Chapter 173-340 WAC, Revised November 2007.

Washington State Department of Ecology, *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*, February 1991 (Revised April 2003).



## FIGURES







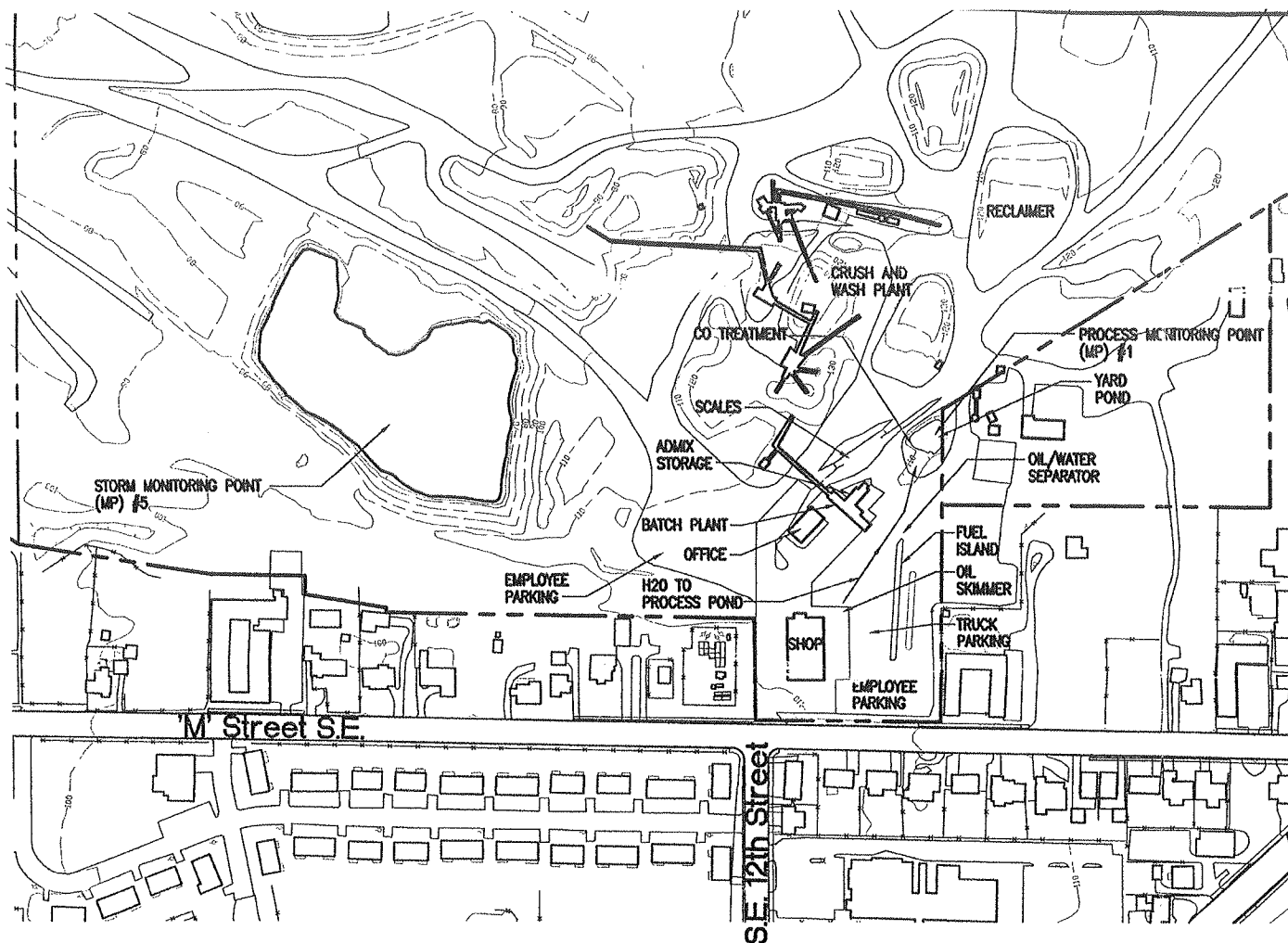
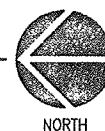


Figure 2  
Site Layout Drawing

# NPDES EXHIBIT MAP

1" = 200'





Site ID: 10786  
Site Tag #: A4121  
Facility Site ID: 87547247

MILES SAND & GRAVEL  
1201 M ST SE  
AUBURN, WA 98002-6707  
Phone #: (253) 833-3705

UBI: 171-004-760 001 0002

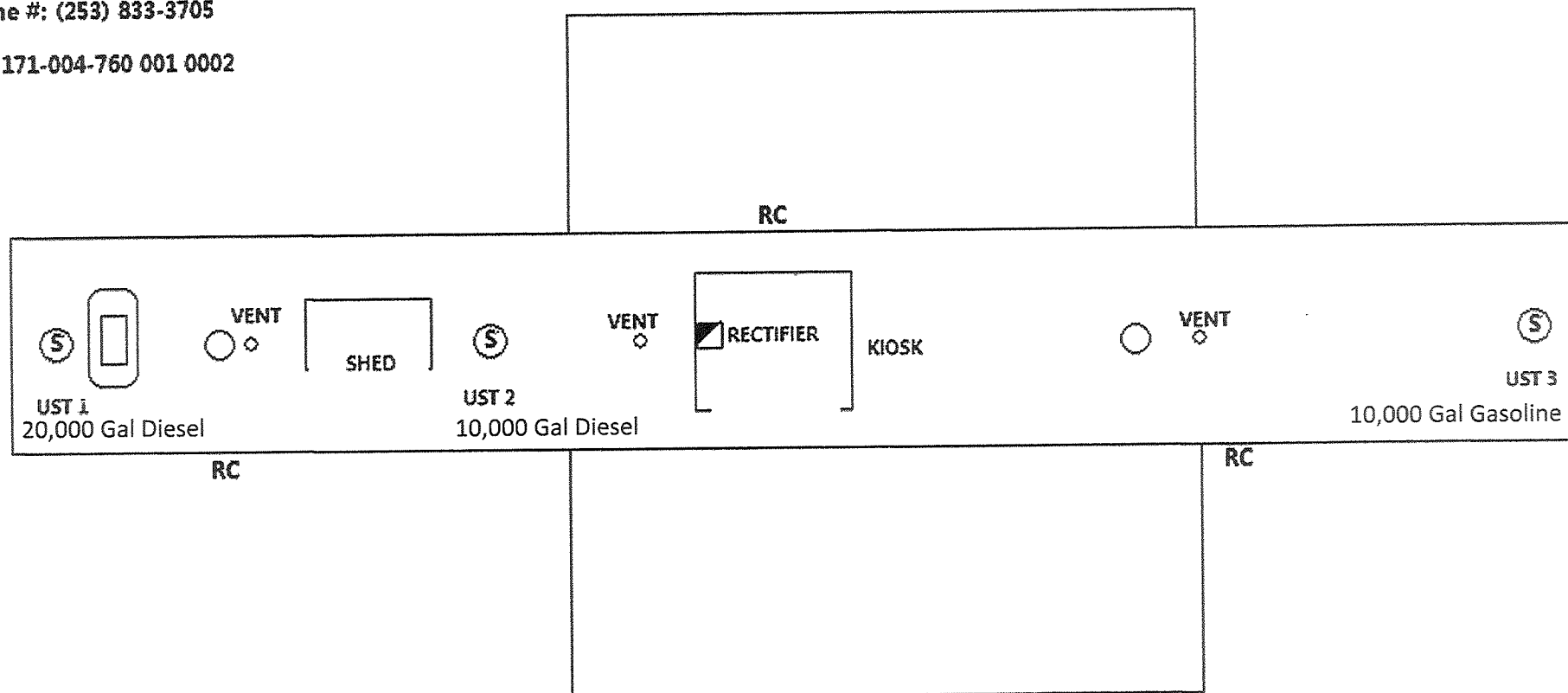
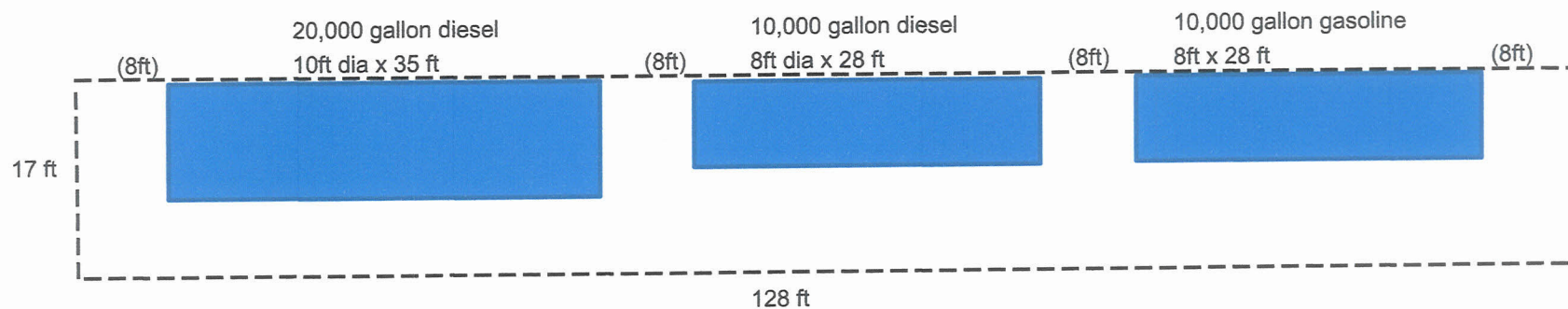


Figure 3  
UST Layout

S = STRUCTURE CONTACT  
RC = REFERENCE CELL LOCATION  
REM = REMOTE READING





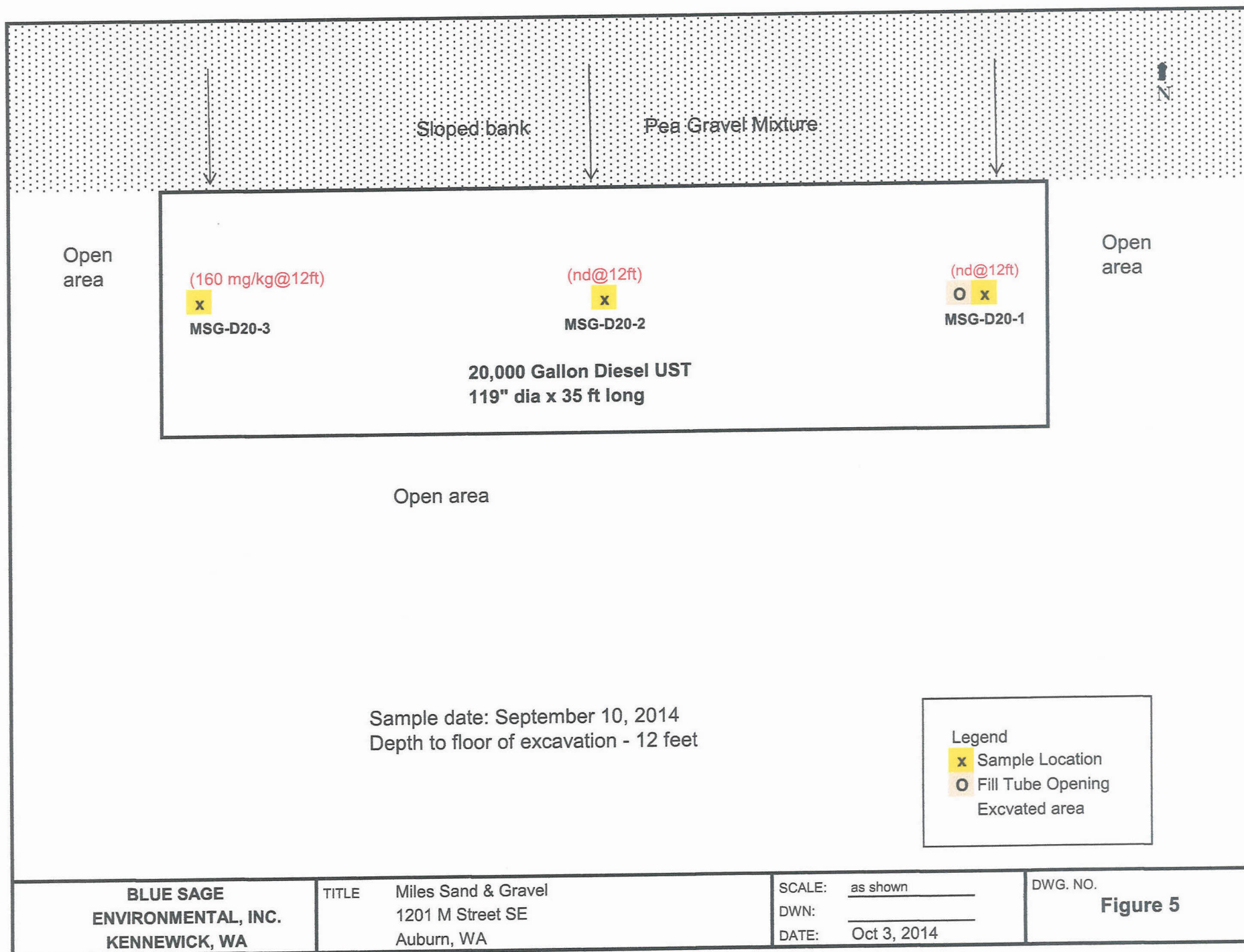
**BLUE SAGE  
ENVIRONMENTAL, INC.  
KENNEWICK, WA**

**TITLE** Miles Sand & Gravel  
UST layout when uncovered  
9/10/2014

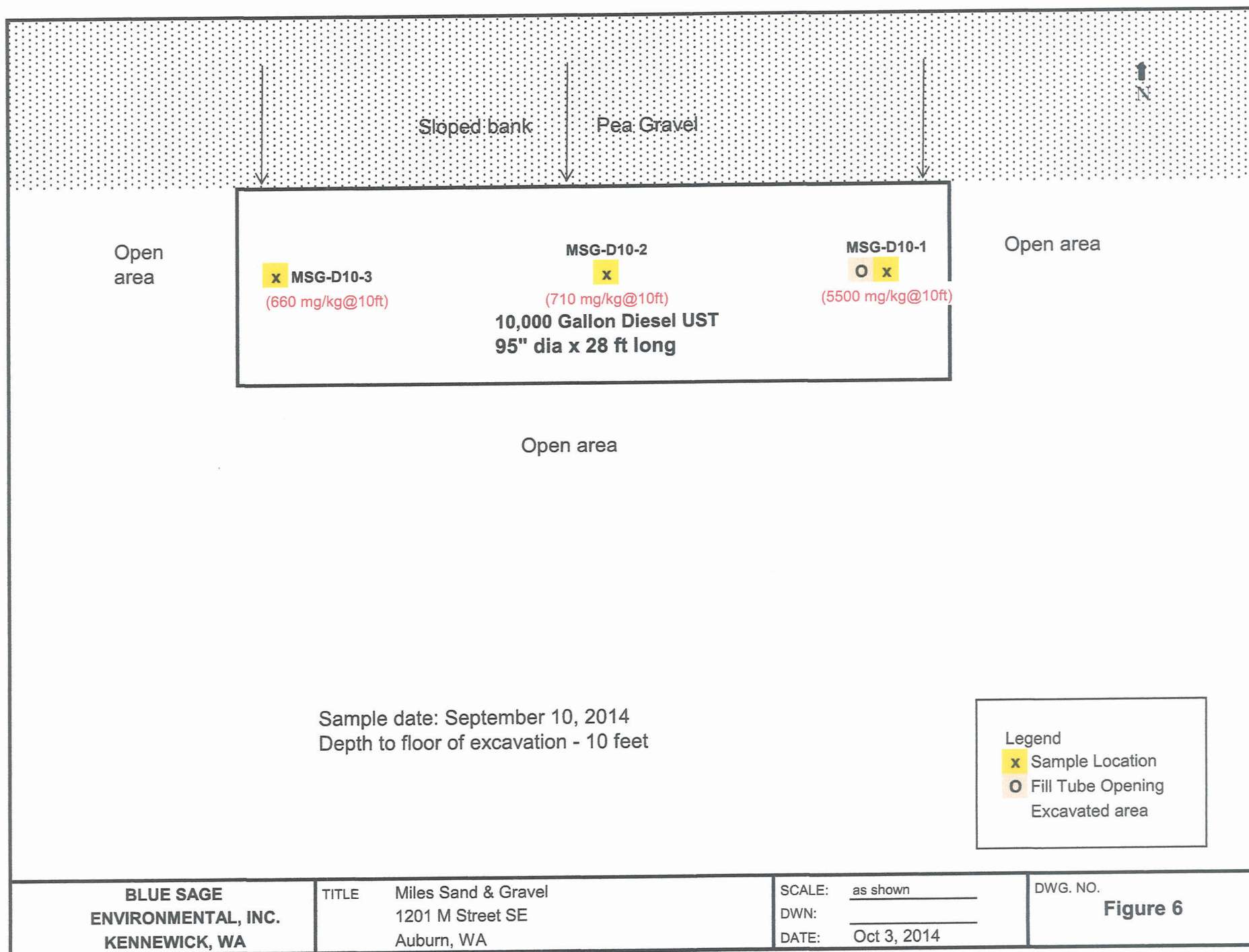
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**DWN:** A Koch  
**DATE:** 10/3/14

**DWG. NO.**  
**Figure 4**

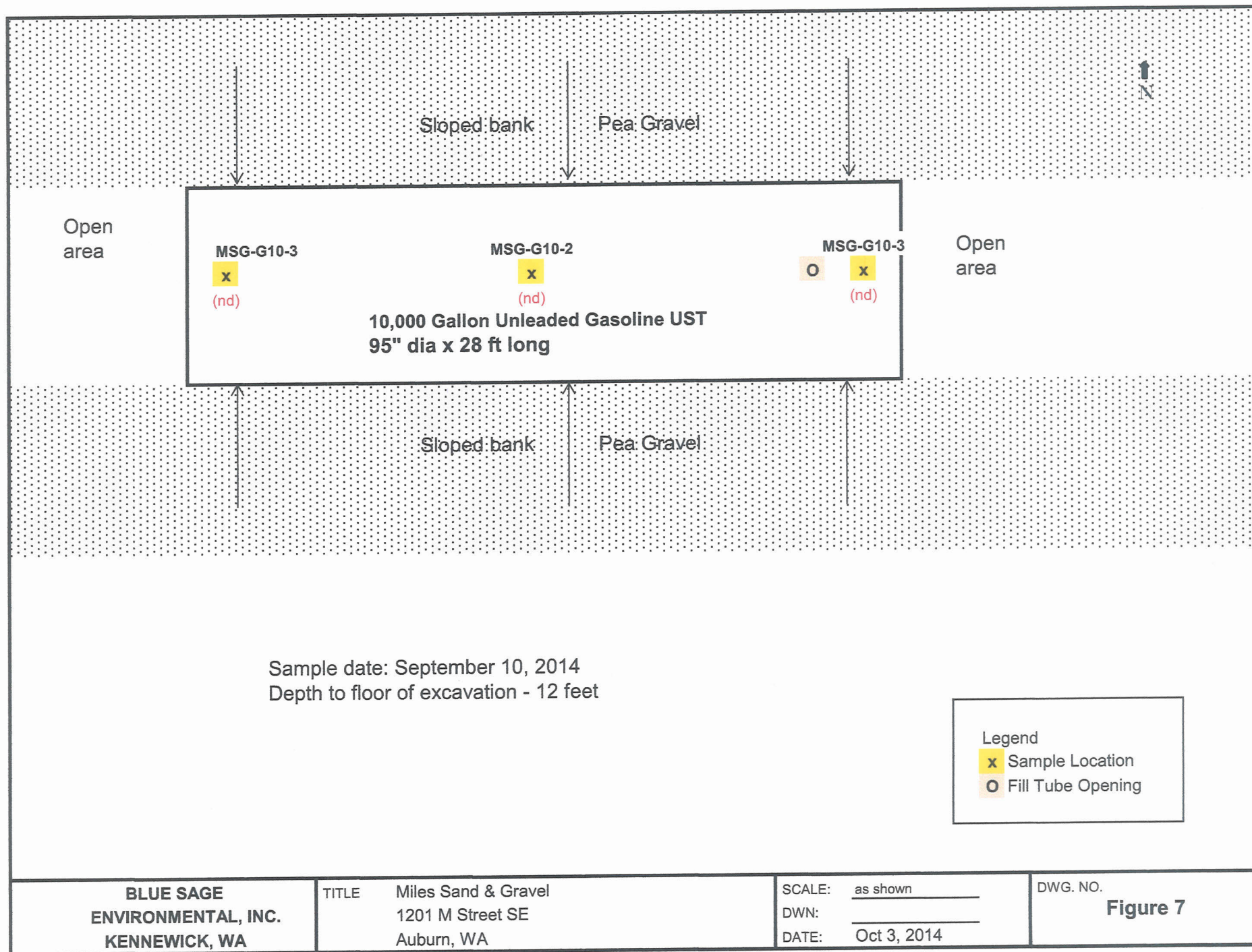




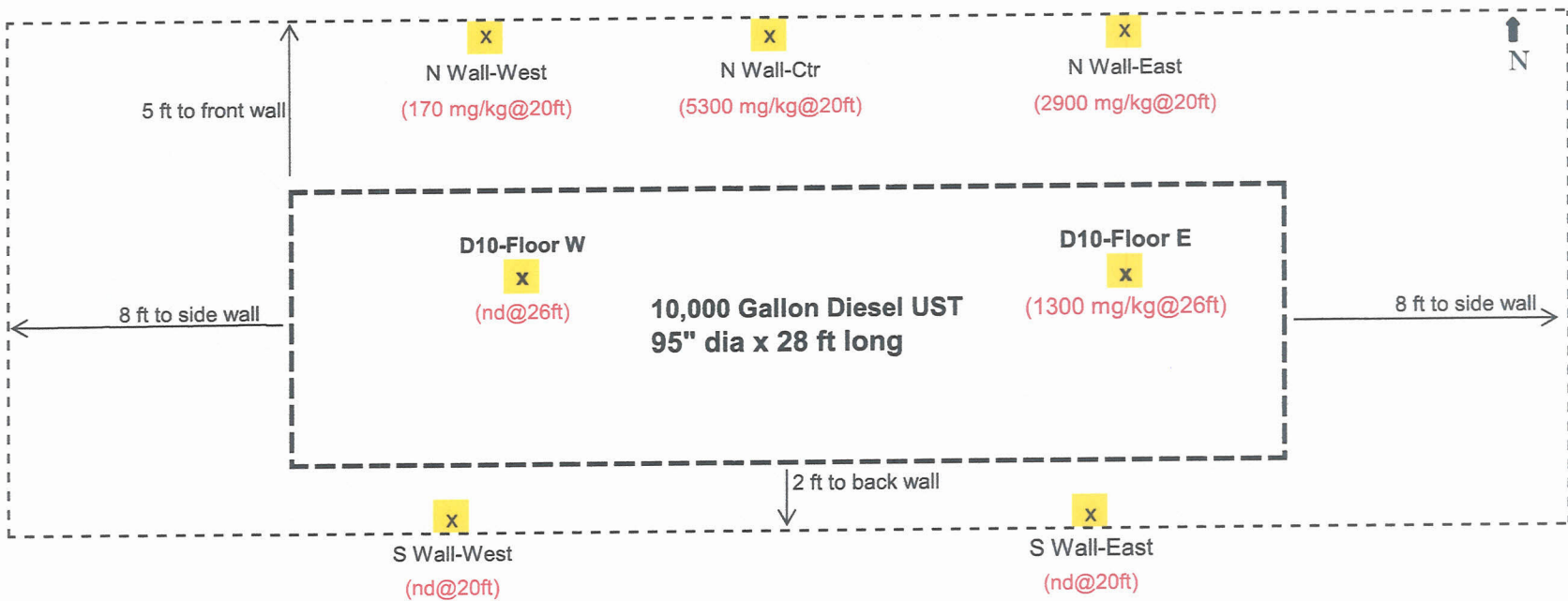












Sample date: September 12, 2014  
Depth to floor of excavation - 25 feet

Legend  
 x Sample Location  
 Excavated area

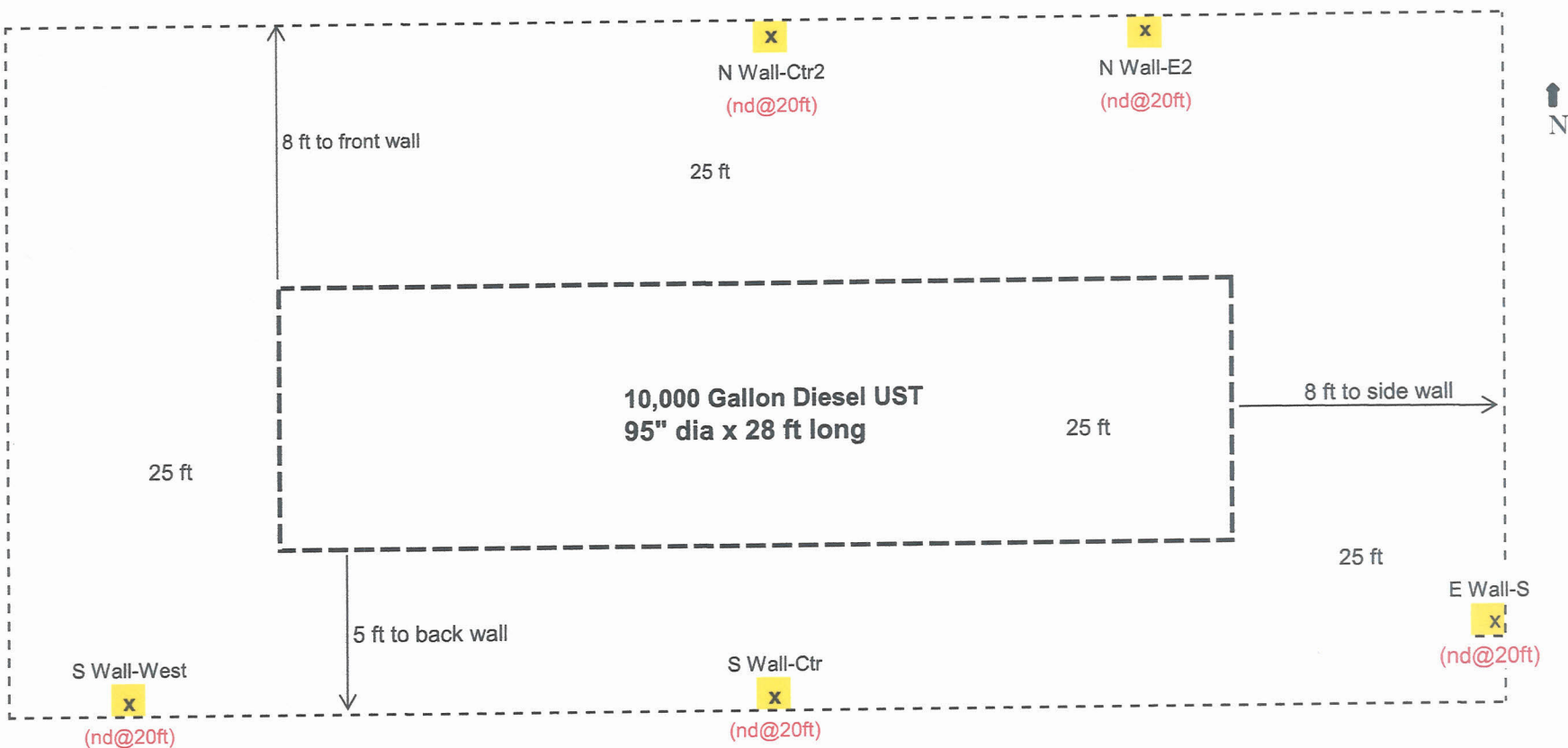
**BLUE SAGE  
ENVIRONMENTAL, INC.  
KENNEWICK, WA**

TITLE Miles Sand & Gravel  
1201 M Street SE  
Auburn, WA

SCALE: as shown  
DWN:  
DATE: Oct 3, 2014

DWG. NO.  
**Figure 8**





Sample date: September 16, 2014  
Depth to floor of excavation - 25 feet

Legend  
 x Sample Location  
 Excavated area

**BLUE SAGE  
ENVIRONMENTAL, INC.  
KENNEWICK, WA**

TITLE Miles Sand & Gravel  
1201 M Street SE  
Auburn, WA

SCALE: as shown  
DWN:  
DATE: Oct 3, 2014

DWG. NO.  
**Figure 9**



## TABLES



**TABLE 1**  
**Soil Analysis**  
**Miles Sand & Gravel Company**  
**Auburn, Washington**

Sample Date	Sample Number	Location	Depth (ft.)	Units	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead
9/10/14	MSG-D20-1	20k diesel	12+	mg/kg	-	nd	nd	nd	nd	nd	-
9/10/14	MSG-D20-2	20k diesel	12+	mg/kg	-	nd	nd	nd	nd	nd	-
9/10/14	MSG-D20-3	20k diesel	12+	mg/kg	-	<b>160</b>	nd	nd	nd	nd	-
9/10/14	MSG-D10-1	10k diesel	10+	mg/kg	-	<b>5500</b>	nd	nd	nd	nd	-
9/10/14	MSG-D10-2	10k diesel	10+	mg/kg	-	<b>710</b>	nd	nd	nd	nd	-
9/10/14	MSG-D10-3	10k diesel	10+	mg/kg	-	<b>660</b>	nd	nd	nd	nd	-
9/10/14	MSG-G10-1	10k gas	12+	mg/kg	nd	-	nd	nd	nd	nd	-
9/10/14	MSG-G10-2	10k gas	12+	mg/kg	nd	-	nd	nd	nd	nd	-
9/10/14	MSG-G10-3	10k gas	12+	mg/kg	nd	-	nd	nd	nd	nd	-

Notes:

nd Not detected at the listed detection limits

- Not analyzed

**710** Bold number(s) indicate contamination present

**5500** Bold and shaded number(s) indicate contamination above MTCA Method A cleanup level for soils



**TABLE 2**  
**Soil Analysis**  
**Miles Sand & Gravel Company**  
**Auburn, Washington**

Sample Date	Sample Number	Location	Depth (ft.)	Units	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Benzene	Toluene	Ethylbenzene	Xylenes
9/12/14	D10-Floor E	10k diesel	26	mg/kg	-	<b>1300</b>	-	-	-	-
9/12/14	D10-Floor W	10k diesel	26	mg/kg	-	nd	-	-	-	-
9/12/14	N Wall-East	10k diesel	20	mg/kg	-	<b>2900</b>	-	-	-	-
9/12/14	N Wall-Ctr	10k diesel	20	mg/kg	-	<b>5300</b>	-	-	-	-
9/12/14	N Wall-West	10k diesel	20	mg/kg	-	<b>170</b>	-	-	-	-
9/12/14	S Wall-East	10k diesel	20	mg/kg	-	nd	-	-	-	-
9/12/14	S Wall-West	10k diesel	20	mg/kg	-	nd	-	-	-	-

Notes:

nd Not detected at the listed detection limits

- Not analyzed

**710** Bold number(s) indicate contamination present

**5500** Bold and shaded number(s) indicate contamination above MTCA Method A cleanup level for soils



**TABLE 3**  
**Soil Analysis**  
**Miles Sand & Gravel Company**  
**Auburn, Washington**

Sample Date	Sample Number	Location	Depth (ft.)	Units	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Benzene	Toluene	Ethylbenzene	Xylenes
9/16/14	N Wall-E2	10k diesel	20	mg/kg	-	nd	-	-	-	-
9/16/14	N Wall-Ctr2	10k diesel	20	mg/kg	-	nd	-	-	-	-
9/16/14	E Wall-S End	10k diesel	20	mg/kg	-	nd	-	-	-	-
9/16/14	S Wall-Ctr	10k diesel	20	mg/kg	-	nd	-	-	-	-
9/16/14	S Wall-West	10k diesel	20	mg/kg	-	nd	-	-	-	-

Notes:

nd Not detected at the listed detection limits

- Not analyzed

**710** Bold number(s) indicate contamination present

**5500** Bold and shaded number(s) indicate contamination above MTCA Method A cleanup level for soils



**TABLE 4**  
**Soil Analysis**  
**Miles Sand & Gravel Company**  
**Auburn, Washington**

Sample Date	Sample Number	Location	Depth (ft.)	Units	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Benzene	Toluene	Ethylbenzene	Xylenes	
9/10/14	MSG-SP1	Stockpile	1	mg/kg	nd	<b>180</b>	nd	nd	nd	nd	Stockpiled soils from 9/10/14 excavation
9/10/14	MSG-SP2	Stockpile	1	mg/kg	nd	<b>1200</b>	nd	nd	nd	nd	Stockpiled soils from 9/10/14 excavation
9/10/14	MSG-SP3	Stockpile	1	mg/kg	nd	<b>2200</b>	nd	nd	nd	nd	Stockpiled soils from 9/10/14 excavation
9/10/14	MSG-SP4	Stockpile	1	mg/kg	nd	<b>2000</b>	nd	nd	nd	nd	Stockpiled soils from 9/10/14 excavation
9/10/14	MSG-SP5	Stockpile	1	mg/kg	nd	<b>270</b>	nd	nd	nd	nd	Stockpiled soils from 9/10/14 excavation
9/24/14	MSG-SP9	Stockpile	1	mg/kg	-	<b>130</b>	-	-	-	-	Original stockpile - 9/10/14
9/24/14	MSG-SP10	Stockpile	1	mg/kg	-	<b>110</b>	-	-	-	-	Original stockpile - 9/10/14
9/24/14	MSG-SP11	Stockpile	1	mg/kg	-	<b>960</b>	-	-	-	-	Original stockpile - 9/10/14
9/24/14	MSG-SP6	Stockpile	1	mg/kg	-	<b>470</b>	-	-	-	-	Stockpile 9/12&16/14, 10,000 gallon diesel
9/24/14	MSG-SP7	Stockpile	1	mg/kg	-	nd	-	-	-	-	Stockpile 9/12&16/14, 10,000 gallon diesel
9/24/14	MSG-SP8	Stockpile	1	mg/kg	-	nd	-	-	-	-	Stockpile 9/12&16/14, 10,000 gallon diesel
9/24/14	MSG-SP12	Stockpile	1	mg/kg	-	nd	-	-	-	-	Stockpile 9/12&16/14, 10,000 gallon diesel

Notes:

nd Not detected at the listed detection limits

- Not analyzed

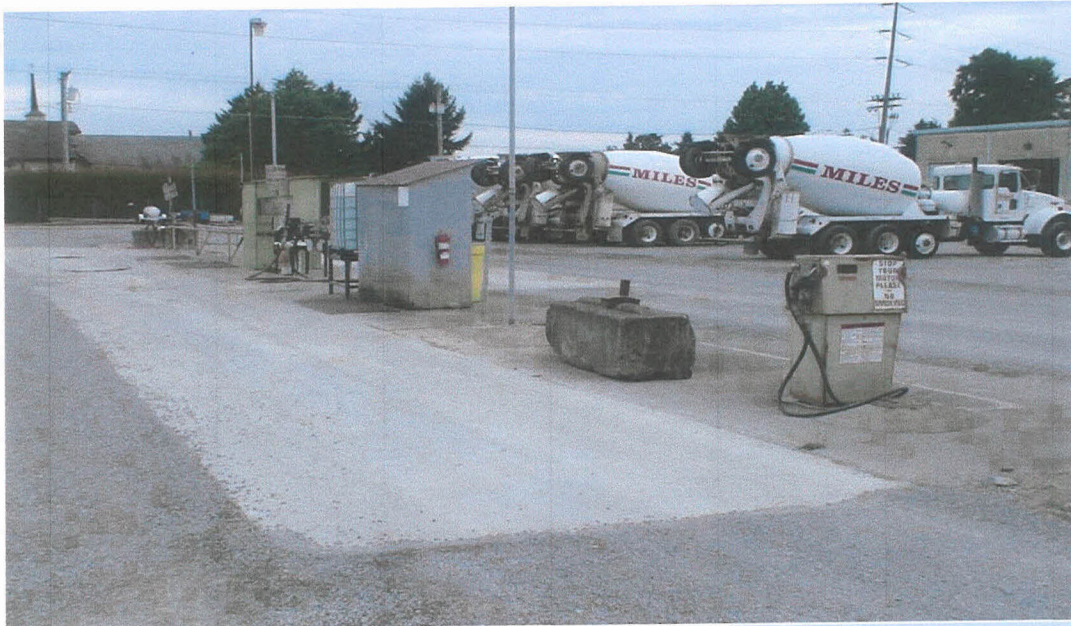
**1200** Bold number(s) indicate contamination present

**2200** Bold and shaded number(s) indicate contamination above MTCA Method A cleanup level for soils



## PHOTOGRAPHS





View of Unleaded Gas pump and Diesel pumping stations



View of Diesel pumping stations

**BLUE SAGE  
ENVIRONMENTAL, INC.  
KENNEWICK, WA**

TITLE Miles Sand & Gravel  
1201 M Street SE  
Auburn, WA

SCALE: as shown  
DWN:  
DATE: Oct 3, 2014

DWG. NO.  
**Photograph 1**





USTs bedded in pea gravel



**BLUE SAGE  
ENVIRONMENTAL, INC.  
KENNEWICK, WA**

**TITLE** Miles Sand & Gravel  
1201 M Street SE  
Auburn, WA

**SCALE:** as shown  
**DWN:**  
**DATE:** Oct 3, 2014

**DWG. NO.**  
**Photos 2**





Removal of inerted USTs



**BLUE SAGE  
ENVIRONMENTAL, INC.  
KENNEWICK, WA**

TITLE Miles Sand & Gravel  
1201 M Street SE  
Auburn, WA

SCALE: as shown  
DWN: \_\_\_\_\_  
DATE: Oct 3, 2014

DWG. NO.  
**Photos 3**





Floor of excavation below Diesel USTs



Floor of excavation below  
Unleaded Gasoline UST

**BLUE SAGE  
ENVIRONMENTAL, INC.  
KENNEWICK, WA**

TITLE Miles Sand & Gravel  
1201 M Street SE  
Auburn, WA

SCALE: as shown  
DWN: \_\_\_\_\_  
DATE: Oct 3, 2014

DWG. NO.  
**Photos 4**





Excavation around 10,000 Diesel UST  
on September 12, 2014  
North wall



Floor of excavation  
with north wall

**BLUE SAGE  
ENVIRONMENTAL, INC.  
KENNEWICK, WA**

TITLE Miles Sand & Gravel  
1201 M Street SE  
Auburn, WA

SCALE: as shown  
DWN: \_\_\_\_\_  
DATE: Oct 3, 2014

DWG. NO.  
**Photos 5**





Excavation around 10,000 Diesel UST  
on September 16, 2014  
North wall

North and west walls



**BLUE SAGE  
ENVIRONMENTAL, INC.  
KENNEWICK, WA**

TITLE Miles Sand & Gravel  
1201 M Street SE  
Auburn, WA

SCALE: as shown  
DWN: \_\_\_\_\_  
DATE: Oct 3, 2014

DWG. NO.

**Photos 6**





Native soils around UST location



Pebbles-Cobbles-Sand  
Mixture

**BLUE SAGE  
ENVIRONMENTAL, INC.  
KENNEWICK, WA**

TITLE Miles Sand & Gravel  
1201 M Street SE  
Auburn, WA

SCALE: as shown  
DWN: \_\_\_\_\_  
DATE: Oct 3, 2014

DWG. NO.  
**Photos 7**



## APPENDIX A

### Ecology UST Site & Tank Data Summary



# Regulated Underground Storage Tanks, Active Facilities \*

## King County, Auburn

<b>Site Name:</b> MILES SAND & GRAVEL COMPANY, INC.			<b>Alternate Name(s):</b> MILES SAND & GRAVEL AUBURN, MILES SAND & GRAVEL COMPANY, MILES SAND & GRAVEL COMPANY, INC.		
<b>Location:</b> 1201 M ST Auburn 98002		<b>Resp. Unit:</b> NORTHWEST <b>Lat / Long:</b> 47.318 -122.214		<b>Facility-Site ID:</b> <b>UST Site ID:</b>	
<b>Tank Name</b>	<b>Tank Status</b>	<b>Install Date</b>	<b>Capacity Range</b>	<b>Compartment #</b>	<b>Substance Stored</b>
E	Operational	3/1/1978	10,000 to 19,999 Gallons	1	B Unleaded Gasoline
M	Operational	3/1/1978	10,000 to 19,999 Gallons	1	D Diesel
W	Operational	3/1/1978	10,000 to 19,999 Gallons	1	D Diesel

RegulatedUSTs2014\_ActiveFacilities




7/16/2014

NC AUBURN,

87547247

10786



 DEPARTMENT OF ECOLOGY State of Washington	Regulated Underground Storage Tanks, Active Facilities *										7/16/2014
King County, Auburn											
Site Name: MILES SAND & GRAVEL COMPANY, INC.				Alternate Name(s): MILES SAND & GRAVEL AUBURN, MILES SAND & GRAVEL COMPANY INC AUBURN, MILES SAND & GRAVEL COMPANY, INC.							
Location: 1201 M ST Auburn 98002				Resp. Unit: NORTHWEST Lat / Long: 47.318 -122.214				Facility-Site ID: 87547247 UST Site ID: 10786			
Tank Name	Tank Status	Install Date		Capacity Range			Compartment #	Substance Stored			
E	Operational	3/1/1978		10,000 to 19,999 Gallons			1	B Unleaded Gasoline			
M	Operational	3/1/1978		10,000 to 19,999 Gallons			1	D Diesel			
W	Operational	3/1/1978		10,000 to 19,999 Gallons			1	D Diesel			

RegulatedUSTs2014\_ActiveFacilities



## APPENDIX B

### Miles Sand & Gravel Company Well Log



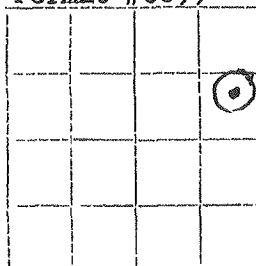
STATE OF WASHINGTON  
DEPARTMENT OF CONSERVATION  
DIVISION OF WATER RESOURCES

Appl. #7075

**WELL LOG**

Permit #6699

Record by **Driller**  
Source **Driller's Record**



Location State of WASHINGTON

County **King**

Area

Map

Gov't. Lot **9** ~~xx~~ sec **19** T **21** N, R **5** E ~~xx~~

Diagram of Section

Drilling Co **Johnson Drilling Co.**

Address **19415 - 108th Avenue SE, Renton, Wash.**

Method of Drilling **Cable** Date **September, 1965**

Owner **Miles Company**

Address **P. O. Box 130, Auburn, Wash.**

Land surface, datum **ft above**

SWL **49'** Date **September, 1965** Dims **10" x 110**

CORRE- LATION	MATERIAL	From (feet)	To (feet)
------------------	----------	----------------	--------------

(Transcribe driller's terminology literally but paraphrase as necessary in parentheses if material water bearing so state and record static level if reported. Give depths in feet below land surface datum unless otherwise indicated. Correlate with stratigraphic column if feasible. Following log of materials list all casings perforations screens etc.)

	Industrial use		
	Clay, greyish, silty	0	11
	Hardpan, sand & gravel	11	40
	Sand, loose, & gravel	40	49
	Sand, water	49	55
	Hardpan, brown	55	59
	Sand, Gravel, water	59	70
	Gravel, coarse, water	70	109
	Hardpan, gravel	109	110
	Casing 10" from 0-110'		
	Screen installed from 90-110'		
	Surface sealed to 10'		
	Yield: 400 gpm with 2' DD after 4 hrs.		
	Immediate recovery		
	Test made in September, 1965		
	Pump: 60 h.p. deep well - Peerless		

Turn up

Sheet of sheets



## APPENDIX C

Marine Vacuum Service, Inc.  
AST/UST Pump & Rinse Certificate



# Marine Vacuum Service, Inc.

GENERAL CONTRACTOR

CONTRACTORS LICENSE # MARINVS097JA

P.O. Box 24263 Seattle, Washington 98124

Telephone (206) 762-0240

FAX (206) 763-8084

1-800-540-7491

## AST/UST STORAGE TANK PUMP & RINSE CERTIFICATE

Tank Size: 10K | 10K | 20K  
Last Contents Gas | Diesel | Diesel  
Tank Location: 1201 M St - Miles Sand  
Auburn, WA

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in accordance with the industry standard as outlined in 40 CFR PART 280.70, WAC 173-360-380(I), API 1604, API 2015 and that all residual product and rinsate has been disposed of in accordance with Federal, State and Local regulations. Tanks listed above are **NOT GAS FREE** or **NOT SAFE FOR HOT WORK**

Tank Owner: Miles Sand

Contractor: Don Smalls  
Blue Eagle

M.V.S. Representative: Mike Schirmer

Date: 9-9-14

Notes:

DBE # D4M1302341

EPA # WAD980974521

A MINORITY BUSINESS ENTERPRISE ID # D4M1302341



## APPENDIX D

ESN Northwest Chemistry Laboratory  
Lab Report dated September 16, 2014





Environmental  
Services Network

September 16, 2014

Alex Koch  
Blue Sage Environmental  
P.O. Box 6738  
Kennewick, WA 99336

Dear Mr. Koch:

Please find enclosed the analytical data reports for the UST Removal Project in Auburn, Washington. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/DX Extended, Gasoline by NWTPH-Gx, and BTEX by Method 820 on September 11, 2014.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. A copy of the invoice for this work is enclosed for your records.

ESN Northwest appreciates the opportunity to have provided these services to Blue Sage Environmental for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

A handwritten signature in cursive script that reads "Michael A. Korosec".

Michael A. Korosec  
President



## ESN NORTHWEST CHEMISTRY LABORATORY

Miles Sand & Gravel  
UST Removal PROJECT  
Auburn, WA

ESN Northwest  
1210 Eastside Street SE Suite 200  
Olympia, WA 98501  
(360) 459-4670 (360) 459-3432 Fax  
lab@esnnw.com

### Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil by Method NWTPH-Dx/Dx Extended

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Diesel Range Organics (mg/kg)	Lube Oil Range Organics (mg/kg)
Method Blank	9/11/2014	9/11/2014	82	nd	nd
LCS	9/11/2014	9/11/2014	92	105%	---
MSG-SP1	9/11/2014	9/11/2014	88	180	nd
MSG-SP2	9/11/2014	9/11/2014	83	1200	nd
MSG-SP3	9/11/2014	9/11/2014	102	2200	nd
MSG-SP4	9/11/2014	9/11/2014	100	2000	nd
MSG-SP5	9/11/2014	9/11/2014	91	270	nd
MSG-SP5 Duplicate	9/11/2014	9/11/2014	94	270	nd
Reporting Limits				50	100

"---" Indicates not tested for component.

"nd" Indicates not detected at the listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 50% TO 150%



## ESN NORTHWEST CHEMISTRY LABORATORY

Miles Sand & Gravel  
UST Removal Auburn Pit PROJECT  
Auburn, WA

ESN Northwest  
1210 Eastside Street SE Suite 200  
Olympia, WA 98501  
(360) 459-4670 (360) 459-3432 Fax  
lab@esnnw.com

### Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil by Method NWTPH-Dx/Dx Extended

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Diesel Range Organics (mg/kg)	Lube Oil Range Organics (mg/kg)
Method Blank	9/11/2014	9/11/2014	82	nd	nd
LCS	9/11/2014	9/11/2014	92	105%	---
MSG-D20-1	9/11/2014	9/11/2014	103	nd	nd
MSG-D20-2	9/11/2014	9/11/2014	121	nd	nd
MSG-D20-3	9/11/2014	9/11/2014	96	160	nd
MSG-D10-1	9/11/2014	9/11/2014	129	5500	nd
MSG-D10-2	9/11/2014	9/11/2014	99	710	nd
MSG-D10-3	9/11/2014	9/11/2014	88	660	nd
Reporting Limits				50	100

"---" Indicates not tested for component.

"nd" Indicates not detected at the listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 50% TO 150%



## ESN NORTHWEST CHEMISTRY LABORATORY

Miles Sand & Gravel  
UST Removal PROJECT  
Auburn, WA

ESN Northwest  
1210 Eastside Street SE Suite 200  
Olympia, WA 98501  
(360) 459-4670 (360) 459-3432 Fax  
lab@esnnw.com

### Analyses of Gasoline Range Organics in Soil by Method NWTPH-Gx

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Gasoline Range Organics (mg/kg)
Method Blank	9/11/2014	9/11/2014	108	nd
LCS	9/11/2014	9/11/2014	107	114%
MSG-SP1	9/10/2014	9/11/2014	115	nd
MSG-SP2	9/10/2014	9/11/2014	109	nd
MSG-SP3	9/10/2014	9/11/2014	114	nd
MSG-SP4	9/10/2014	9/11/2014	104	nd
MSG-SP5	9/10/2014	9/11/2014	116	nd
MSG-SP5 Duplicate	9/10/2014	9/11/2014	115	nd
Reporting Limits				10

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE: 65% TO 135%



## ESN NORTHWEST CHEMISTRY LABORATORY

Miles Sand & Gravel  
UST Removal Auburn Pit PROJECT  
Auburn, WA

ESN Northwest  
1210 Eastside Street SE Suite 200  
Olympia, WA 98501  
(360) 459-4670 (360) 459-3432 Fax  
lab@esnnw.com

### Analyses of Gasoline Range Organics in Soil by Method NWTPH-Gx

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Gasoline Range Organics (mg/kg)
Method Blank	9/11/2014	9/11/2014	108	nd
LCS	9/11/2014	9/11/2014	107	114%
MSG-G10-1	9/10/2014	9/11/2014	108	nd
MSG-G10-2	9/10/2014	9/11/2014	116	nd
MSG-G10-3	9/10/2014	9/11/2014	117	nd
Reporting Limits				10

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE: 65% TO 135%



# ESN NORTHWEST CHEMISTRY LABORATORY

Miles Sand & Gravel  
UST Removal PROJECT  
Auburn, WA

ESN Northwest  
1210 Eastside Street SE Suite 200  
Olympia, WA 98501  
(360) 459-4670 (360) 459-3432 Fax  
lab@esnww.com

## Analyses of BTEX (EPA Method 8260) in Soil

Sample Number	Date Prepared	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Surrogate Recovery (%)
Method Blank	9/11/2014	9/11/2014	nd	nd	nd	nd	106
LCS	9/11/2014	9/11/2014	104%	101%	98%	92%	111
LCSD	9/11/2014	9/11/2014	85%	85%	80%	79%	107
MSG-SP1	9/10/2014	9/11/2014	nd	nd	nd	nd	113
MSG-SP2	9/10/2014	9/11/2014	nd	nd	nd	nd	107
MSG-SP3	9/10/2014	9/11/2014	nd	nd	nd	nd	112
MSG-SP4	9/10/2014	9/11/2014	nd	nd	nd	nd	102
MSG-SP5	9/10/2014	9/11/2014	nd	nd	nd	nd	114
MSG-SP5 Duplicate	9/10/2014	9/11/2014	nd	nd	nd	nd	113
Method Detection Limits			0.02	0.05	0.05	0.15	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (4-Bromofluorobenzene) & LCS : 65% TO 135%



**ESN NORTHWEST CHEMISTRY LABORATORY**

Miles Sand & Gravel  
UST Removal Auburn Pit PROJECT  
Auburn, WA

ESN Northwest  
1210 Eastside Street SE Suite 200  
Olympia, WA 98501  
(360) 459-4670 (360) 459-3432 Fax  
lab@esnnw.com

**Analyses of BTEX (EPA Method 8260) in Soil**

Sample Number	Date Prepared	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Surrogate Recovery (%)
Method Blank	9/11/2014	9/11/2014	nd	nd	nd	nd	106
LCS	9/11/2014	9/11/2014	104%	101%	98%	92%	111
LCSD	9/11/2014	9/11/2014	85%	85%	80%	79%	107
MSG-D20-1	9/10/2014	9/11/2014	nd	nd	nd	nd	111
MSG-D20-2	9/10/2014	9/11/2014	nd	nd	nd	nd	108
MSG-D20-3	9/10/2014	9/11/2014	nd	nd	nd	nd	113
MSG-D10-1	9/10/2014	9/11/2014	nd	nd	nd	nd	119
MSG-D10-2	9/10/2014	9/11/2014	nd	nd	nd	nd	109
MSG-D10-3	9/10/2014	9/11/2014	nd	nd	nd	nd	109
MSG-G10-1	9/10/2014	9/11/2014	nd	nd	nd	nd	106
MSG-G10-2	9/10/2014	9/11/2014	nd	nd	nd	nd	111
MSG-G10-3	9/10/2014	9/11/2014	nd	nd	nd	nd	115
Method Detection Limits			0.02	0.05	0.05	0.15	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (4-Bromofluorobenzene) & LCS : 65% TO 135%



5140911.1

# CHAIN-OF-CUSTODY RECORD

CLIENT: MILES SAND & GRAVEL (BSE)  
 ADDRESS: 400 Valley Ave NE PLYALLUP 98372  
 PHONE: (253) 833-3705 FAX: \_\_\_\_\_  
 ATTN: MIKE SCHLH  
 CLIENT PROJECT #: \_\_\_\_\_ PROJECT MANAGER: AHK

DATE: 9-10-14 PAGE \_\_\_\_\_ OF \_\_\_\_\_  
 PROJECT NAME: LIST REMOVAL  
 LOCATION: ALBURN PIT  
 COLLECTOR: A KOCH DATE OF COLLECTION: 9/10/14

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES														NOTES	Total Number of Containers	Laboratory Note Number			
					TPH-HQD	TPH - DIESEL & OIL	TPH - GASOLINE	BTEX	VOC 8260CL	VOC 8280	Semivol 8270	PAH's 8270	PCB's 8082	CL Pesticides 8081	RCRA 8 Metals	MTCA 8 Metals	Pb	Asbestos-PLM				GRO Suite	DRO Suite	WO Suite
1. MSG-D20-1	15		SOIL	As2/10A	X	X															24hr	3		
2. MSG-D20-2	15				X	X															24hr	3		
3. MSG-D20-3	15				X	X																24hr	3	
4. MSG-D10-1	12				X	X																24hr	3	
5. MSG-D10-2	12				X	X																24hr	3	
6. MSG-D10-3	12				X	X																24hr	3	
7. MSG-G10-1	14					X	X															24hr	3	
8. MSG-G10-2	14					X	X															24hr	3	
9. MSG-G10-3	14					X	X															24hr	3	
10. MSG-SP1						X	X	X														5 day	3	
11. MSG-SP2						X	X	X														5 day	3	
12. MSG-SP3						X	X	X														5 day	3	
13. MSG-SP4						X	X	X														5 day	3	
14. MSG-SP5						X	X	X														5 day	3	
15.																								
16.																								
17.																								
18.																								

RELINQUISHED BY (Signature) [Signature] DATE/TIME 9/11/14 8:55  
 RECEIVED BY (Signature) [Signature] DATE/TIME 9/11/14 5:15

RELINQUISHED BY (Signature) \_\_\_\_\_ DATE/TIME \_\_\_\_\_  
 RECEIVED BY (Signature) \_\_\_\_\_ DATE/TIME \_\_\_\_\_

**SAMPLE RECEIPT**  
 TOTAL NUMBER OF CONTAINERS \_\_\_\_\_  
 CHAIN OF CUSTODY SEALS Y/N/NA \_\_\_\_\_  
 SEALS INTACT? Y/N/NA \_\_\_\_\_  
 RECEIVED GOOD COND./COLD \_\_\_\_\_  
 NOTES: \_\_\_\_\_

**LABORATORY NOTES:**  
 24hr 1-9  
 5day 10-14  
 Turn Around Time: 24 HR 48 HR 5 DAY

**SAMPLE DISPOSAL INSTRUCTIONS**

☐ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup



## APPENDIX E

ESN Northwest Chemistry Laboratory  
Lab Report dated September 16, 2014



September 16, 2014

Alex Koch  
Blue Sage Environmental  
P.O. Box 6738  
Kennewick, WA 99336

Dear Mr. Koch:

Please find enclosed the analytical data reports for the Auburn Pit-UST's Project in Auburn, Washington. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/DX Extended on September 12, 2014.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. A copy of the invoice for this work is enclosed for your records.

ESN Northwest appreciates the opportunity to have provided these services to to Blue Sage Environmental for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec  
*President*



## ESN NORTHWEST CHEMISTRY LABORATORY

Miles Sand & Gravel  
Auburn Pit-USTs PROJECT  
Auburn, WA

ESN Northwest  
1210 Eastside Street SE Suite 200  
Olympia, WA 98501  
(360) 459-4670 (360) 459-3432 Fax  
lab@esnnw.com

### Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil by Method NWTPH-Dx/Dx Extended

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Diesel Range Organics (mg/kg)	Lube Oil Range Organics (mg/kg)
Method Blank	9/12/2014	9/12/2014	86	nd	nd
LCS	9/12/2014	9/12/2014	86	104%	---
D10-Floor E	9/12/2014	9/12/2014	91	1300	nd
D10-Floor W	9/12/2014	9/12/2014	83	nd	nd
N Wall East	9/12/2014	9/12/2014	94	2900	nd
N Wall Ctr	9/12/2014	9/12/2014	105	5300	nd
N Wall West	9/12/2014	9/12/2014	93	170	nd
S Wall East	9/12/2014	9/12/2014	83	nd	nd
S Wall West	9/12/2014	9/12/2014	86	nd	nd
S Wall West dup	9/12/2014	9/12/2014	86	nd	nd
Reporting Limits				50	100

"---" Indicates not tested for component.

"nd" Indicates not detected at the listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 50% TO 150%



S140912.1

# CHAIN-OF-CUSTODY RECORD

CLIENT: MILES SAND & GRAVEL  
 ADDRESS: \_\_\_\_\_  
 PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 CLIENT PROJECT #: \_\_\_\_\_ PROJECT MANAGER: AKoch

DATE: 9-12-14 PAGE \_\_\_\_\_ OF \_\_\_\_\_  
 PROJECT NAME: Alburn Pit - LSTs  
 LOCATION: Auburn  
 COLLECTOR: AHK DATE OF COLLECTION: 9/12/14

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES																NOTES	Total Number of Containers	Laboratory Note Number
					TPH-ACID	TPH - DIESEL & OIL	TPH - GASOLINE	BTX	VOC 2200CL	VOC 2200	Semivol 8270	PAH's 8270	PCB's 8002	CL Pesticides 8081	PCRA 8 Metals	MTCA 5 Metals	Pb	Asbestos-PLM	GRO Suite	DRO Suite	WO Suite		
1. DIO - Floor E	28	1030	Soil	4oz	X																	1	
2. DIO - Floor W	28	1035			X																	1	
3. N Wall - East	20	1040			X																	1	
4. N Wall - Ctr	20	1045			X																	1	
5. N Wall - West	20	1050			X																	1	
6. S Wall - East	20	1055			X																	1	
7. S Wall - West	20	1100			X																	1	
8.																							
9.																							
10.																							
11.																							
12.																							
13.																							
14.																							
15.																							
16.																							
17.																							
18.																							

RELINQUISHED BY (Signature) [Signature] DATE/TIME 9/12/14 1:10  
 RECEIVED BY (Signature) [Signature] DATE/TIME 9/12/14 1:10

RELINQUISHED BY (Signature) \_\_\_\_\_ DATE/TIME \_\_\_\_\_  
 RECEIVED BY (Signature) \_\_\_\_\_ DATE/TIME \_\_\_\_\_

## SAMPLE DISPOSAL INSTRUCTIONS

☐ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

## SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS \_\_\_\_\_  
 CHAIN OF CUSTODY SEALS Y/N/NA \_\_\_\_\_  
 SEALS INTACT? Y/N/NA \_\_\_\_\_  
 RECEIVED GOOD COND./COLD \_\_\_\_\_

NOTES:

## LABORATORY NOTES:

Turn Around Time: 24 HR 48 HR 5 DAY



## APPENDIX F

ESN Northwest Chemistry Laboratory  
Lab Report dated September 23, 2014





Environmental  
Services Network

September 23, 2014

Alex Koch  
Blue Sage Environmental  
P.O. Box 6738  
Kennewick, WA 99336

Dear Mr. Koch:

Please find enclosed the analytical data reports for the Auburn Pit-UST's Project in Auburn, Washington. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/DX Extended on September 16, 2014.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. A copy of the invoice for this work is enclosed for your records.

ESN Northwest appreciates the opportunity to have provided these services to to Blue Sage Environmental for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

A handwritten signature in black ink that reads "Michael A. Korosec".

Michael A. Korosec  
*President*



**ESN NORTHWEST CHEMISTRY LABORATORY**

Miles Sand & Gravel  
AUBURN PIT UST REMOVAL  
Auburn, WA

ESN Northwest  
1210 Eastside Street SE Suite 200  
Olympia, WA 98501  
(360) 459-4670 (360) 459-3432 Fax  
lab@esnvw.com

**Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil by Method NWTPH-Dx/Dx Extended**

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Diesel Range Organics (mg/kg)	Lube Oil Range Organics (mg/kg)
Method Blank	9/16/2014	9/16/2014	78	nd	nd
LCS	9/16/2014	9/16/2014	99	87%	---
NWall- East2	9/16/2014	9/16/2014	131	nd	nd
NWall- Ctr2	9/16/2014	9/16/2014	100	nd	nd
East Wall-S End	9/16/2014	9/16/2014	93	nd	nd
S Wall-Ctr	9/16/2014	9/16/2014	84	nd	nd
S Wall- W End	9/16/2014	9/16/2014	75	nd	nd
S Wall- W End Duplicate	9/16/2014	9/16/2014	93	nd	nd
Reporting Limits				50	100

"---" Indicates not tested for component.

"nd" Indicates not detected at the listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 50% TO 150%



S140916.5

# CHAIN-OF-CUSTODY RECORD

CLIENT: <u>MILES SAND &amp; GRAVEL (B&amp;B)</u> ADDRESS: <u>PLYMOUTH</u> PHONE: _____ FAX: _____ CLIENT PROJECT #: _____ PROJECT MANAGER: <u>AKOCH</u>	DATE: <u>9-16-2014</u> PAGE <u>1</u> OF <u>1</u> PROJECT NAME: <u>MILES S &amp; G</u> LOCATION: <u>ALBURN</u> COLLECTOR: <u>ANK</u> DATE OF COLLECTION: <u>9/16/14</u>
--	---

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES																Total Number of Containers	Laboratory Note Number
					TPH-HCD	TPH - DIESEL & OIL	TPH - GASOLINE	BTEX	VOC 6200CL	Semivol 6270	PAH's 6270	PCB's 8082	CL Pesticides 8081	PCRA 8 Metals	MTCA 8 Metals	Pb	Asbestos-PLM	GRO Suite	DRO Suite	WO Suite		
1. N Wall - East 2	25	800	SOIL	4oz	X																	
2. N Wall - Gr 2	25	815			X																	
3. East Wall -	25	1300			X																	
4. SEND																						
5. S Wall - Ctr	25	1330			X																	
6. S Wall - w end	25	1330			X																	
7.																						
8.																						
9.																						
10.																						
11.																						
12.																						
13.																						
14.																						
15.																						
16.																						
17.																						
18.																						

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	SAMPLE RECEIPT	LABORATORY NOTES:
	9/16/14 1440		9/16/14 1440	TOTAL NUMBER OF CONTAINERS	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	CHAIN OF CUSTODY SEALS Y/N/NA	
				SEALS INTACT? Y/N/NA	
<b>SAMPLE DISPOSAL INSTRUCTIONS</b> <input type="checkbox"/> ESN DISPOSAL @ \$2.00 each <input type="checkbox"/> Return <input type="checkbox"/> Pickup				RECEIVED GOOD COND./COLD	
				NOTES:	
Turn Around Time: <u>24 HR</u> 48 HR 5 DAY					



## APPENDIX G

ESN Northwest Chemistry Laboratory  
Lab Report dated September 30, 2014



September 30, 2014

Alex Koch  
Blue Sage Environmental  
P.O. Box 6738  
Kennewick, WA 99336

Dear Mr. Koch:

Please find enclosed the analytical data reports for the UST Removal Project in Auburn, Washington. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/Dx Extended on September 24, 2014.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. A copy of the invoice for this work is enclosed for your records.

ESN Northwest appreciates the opportunity to have provided these services to to Blue Sage Environmental for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec  
President



# ESN NORTHWEST CHEMISTRY LABORATORY

Miles Sand & Gravel  
UST Removal PROJECT  
Auburn, WA

ESN Northwest  
1210 Eastside Street SE Suite 200  
Olympia, WA 98501  
(360) 459-4670 (360) 459-3432 Fax  
lab@esnnw.com

## Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil by Method NWTPH-Dx/Dx Extended

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Diesel Range Organics (mg/kg)	Lube Oil Range Organics (mg/kg)
Method Blank	9/24/2014	9/24/2014	90	nd	nd
LCS	9/24/2014	9/24/2014	112	69%	---
MSG-SP6	9/24/2014	9/24/2014	110	nd	470
MSG-SP7	9/24/2014	9/24/2014	101	nd	nd
MSG-SP8	9/24/2014	9/24/2014	95	nd	nd
MSG-SP9	9/24/2014	9/24/2014	117	130	nd
MSG-SP10	9/24/2014	9/24/2014	105	110	nd
MSG-SP11	9/24/2014	9/24/2014	111	960	nd
MSG-SP12	9/24/2014	9/24/2014	95	nd	nd
MSG-Sp12 Duplicate	9/24/2014	9/24/2014	111	nd	nd
Reporting Limits				50	100

"---" Indicates not tested for component.

"nd" Indicates not detected at the listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 50% TO 150%



5140924.3

# CHAIN-OF-CUSTODY RECORD

CLIENT: MILES SAND & GRAVEL  
 ADDRESS: PLYALLUP  
 PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 CLIENT PROJECT #: \_\_\_\_\_ PROJECT MANAGER: AKOCH

DATE: 9-24-14 PAGE 1 OF 1  
 PROJECT NAME: LIST REMOVAL  
 LOCATION: ALBURN  
 COLLECTOR: AHK DATE OF COLLECTION: 9/24/14

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES																Total Number of Containers	Laboratory Note Number
					TPH-HC/D	TPH - DIESEL & OIL	TPH - GASOLINE	BTEX	VOC 8260CL	Semivol 8270	PAH's 8270	PCB's 8270	CL Pesticides 8081	PCRA 8 Metals	MTCA 5 Metals	Pb	Asbestos-PLM	GRO Suite	DRO Suite	WO Suite		
1. MSG-SP 6		0900	Sp 12	4oz	X																1	
2. " -SP 7					X																1	
3. " -SP 8					X																1	
4. " -SP 9					X																1	
5. " -SP 10					X																1	
6. " -SP 11					X																1	
7. " -SP 12		0915			X																1	
8.																						
9.																						
10.																						
11.																						
12.																						
13.																						
14.																						
15.																						
16.																						
17.																						
18.																						

RELINQUISHED BY (Signature) \_\_\_\_\_ DATE/TIME \_\_\_\_\_ RECEIVED BY (Signature) \_\_\_\_\_ DATE/TIME \_\_\_\_\_

RELINQUISHED BY (Signature) AKOCH DATE/TIME 9/24/14 RECEIVED BY (Signature) AHK DATE/TIME 9/24/14

**SAMPLE RECEIPT**  
 TOTAL NUMBER OF CONTAINERS \_\_\_\_\_  
 CHAIN OF CUSTODY SEALS Y/N/NA \_\_\_\_\_  
 SEALS INTACT? Y/N/NA \_\_\_\_\_  
 RECEIVED GOOD COND./COLD \_\_\_\_\_  
 NOTES: \_\_\_\_\_

LABORATORY NOTES:  
 Turn Around Time: 24 HR 48 HR 5 DAY

**SAMPLE DISPOSAL INSTRUCTIONS**

☐ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup